

## PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE MODIFICATION OF THE EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF MD 174 AND THE RAMPS FOR NORTHBOUND I-97 IN ANNE ARUNDEL COUNTY. THE WORK IS NECESSITATED BY THE CONSTRUCTION OF AN ADDITIONAL LEFT TURN LANE FOR THE NORTHBOUND APPROACH. MD 174 IS ASSUMED TO RUN IN A EAST-WEST DIRECTION.

## INTERSECTION OPERATION

THE INTERSECTION CURRENTLY OPERATES IN A NEMA FOUR-PHASE, FULLY-ACTUATED MODE WITH AN EXCLUSIVE-PERMISSIVE LEFT TURN PHASE FOR MD 174. THE INTERSECTION OPERATION WILL NOT CHANGE.

## EQUIPMENT LIST "A"

A. EQUIPMENT TO BE FURNISHED BY THE SHA AND INSTALLED BY THE CONTRACTOR

ITEM NO.	QUANTITY	DESCRIPTION
NONE		

## EQUIPMENT LIST "B"

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY CONTRACTOR. ALL EQUIPMENT SHALL HAVE CATALOG CUTS SUBMITTED TO THE OFFICE OF TRAFFIC AND SAFETY FOR APPROVAL PRIOR TO INSTALLATION.

QUANTITY	DESCRIPTION
1 LS	MAINTENANCE OF TRAFFIC
750 LF	5 INCH WHITE HEAT APPLIED THERMOPLASTIC PAVEMENT MARKING LINE
1400 LF	5 INCH YELLOW HEAT APPLIED THERMOPLASTIC PAVEMENT MARKING LINE
410 LF	10 INCH WHITE HEAT APPLIED THERMOPLASTIC PAVEMENT MARKING LINE
50 LF	24 INCH WHITE HEAT APPLIED THERMOPLASTIC PAVEMENT MARKING LINE
9 EA	WHITE HEAT APPLIED THERMOPLASTIC PAVEMENT MARKING 'ARROW'
1 EA	WHITE HEAT APPLIED THERMOPLASTIC PAVEMENT MARKING 'ONLY'
200 LF	REMOVE EXISTING PAVEMENT MARKING LINE
1 EA	REMOVE EXISTING OVERHEAD SIGN
1 EA	RELOCATE EXISTING GROUND MOUNTED SIGN
2 EA	R3-5L SIGN (30" X 36") - MAST ARM MOUNT
1 EA	RELOCATE EXISTING OVERHEAD SIGN
2 EA	RELOCATE EXISTING SIGNAL INDICATIONS
2 EA	R3-7(1)R SIGN (30" X 30") - GROUND MOUNT
30 LF	4 IN. X 4 IN. WOOD SIGN SUPPORTS

## EQUIPMENT LIST "C"

C. EXISTING EQUIPMENT TO BE REMOVED BY THE CONTRACTOR AND DELIVERED TO THE STATE HIGHWAY ADMINISTRATION, 7491 CONNELLEY DRIVE, HANOVER, MARYLAND 21076. THE CONTRACTOR SHALL NOTIFY THE SHA AT (410) 787-7652 AT LEAST THREE DAYS IN ADVANCE OF DELIVERY.

ITEM NO.	QUANTITY	DESCRIPTION
NONE		

ALL SIGNAL EQUIPMENT TO BE REMOVED AND NOT RETURNED TO THE SHA SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

## CONTACT PERSONS FOR DISTRICT 5 ARE AS FOLLOWS:

MRS. KIM TRAN  
ASSISTANT DISTRICT ENGINEER - TRAFFIC  
(410) 841-1003

MR. JOHN MAYS  
ASSISTANT DISTRICT ENGINEER - MAINTENANCE  
(410) 841-1002

MR. JOE HORTY  
UTILITY ENGINEER  
(410) 841-1005

## CONTACTS FOR OFFICE OF TRAFFIC AND SAFETY

MR. RICHARD DAFF, SR.  
CHIEF, TRAFFIC OPERATIONS  
(410) 787-7630

MR. EUGENE BAILEY  
TEAM LEADER SIGN OPERATIONS  
(410) 787-7676

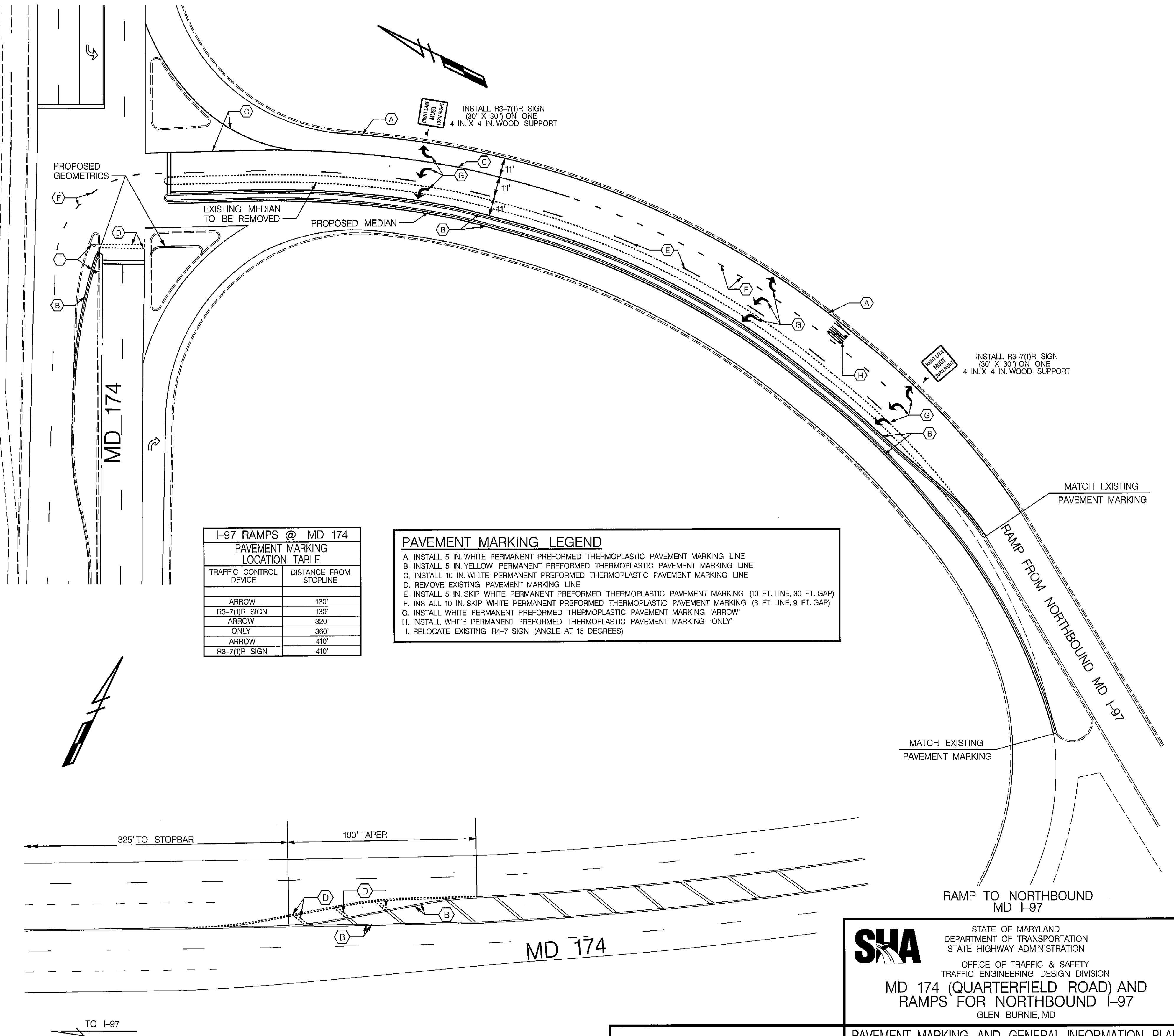
MR. ROBERT SNYDER  
ASSISTANT DIVISION CHIEF,  
TRAFFIC OPERATIONS  
(410) 787-7631

MS. DARLENE EIDE  
SUPPLY OFFICE  
SIGNAL SHOP WAREHOUSE  
(410) 787-7668

MR. ED RODENHIZER  
CHIEF - SIGNAL OPERATIONS SECTION  
(410) 787-7652

## PHASE CHART

	1	2	3	4	5	6	7	8
PHASE 2 & 5	R	R	G	G	G	R	R	R
2 & 5 CHANGE	R	R	G	G	G	R	R	R
PHASE 2 & 6	G	G	G	G	G	R	R	R
2 & 6 CHANGE	Y	Y	Y	Y	Y	R	R	R
PHASE 4	R	R	R	R	R	G	G	G
4 CHANGE	R	R	R	R	R	Y	Y	Y
FLASHING OPERATION	FLY	FLY	FLY	FLY	FLY	FLR	FLR	FLR



I-97 RAMPS @ MD 174 PAVEMENT MARKING LOCATION TABLE	
TRAFFIC CONTROL DEVICE	DISTANCE FROM STOPLINE
ARROW	130'
R3-7(1)R SIGN	130'
ARROW	320'
ONLY	360'
ARROW	410'
R3-7(1)R SIGN	410'

## PAVEMENT MARKING LEGEND

- A. INSTALL 5 IN. WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING LINE  
B. INSTALL 5 IN. YELLOW PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING LINE  
C. INSTALL 10 IN. WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING LINE  
D. REMOVE EXISTING PAVEMENT MARKING LINE  
E. INSTALL 5 IN. SKIP WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING (10 FT. LINE, 30 FT. GAP)  
F. INSTALL 10 IN. SKIP WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING (3 FT. LINE, 9 FT. GAP)  
G. INSTALL WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING 'ARROW'  
H. INSTALL WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING 'ONLY'  
I. RELOCATE EXISTING R4-7 SIGN (ANGLE AT 15 DEGREES)



STATE OF MARYLAND  
DEPARTMENT OF TRANSPORTATION  
STATE HIGHWAY ADMINISTRATION  
OFFICE OF TRAFFIC & SAFETY  
TRAFFIC ENGINEERING DESIGN DIVISION  
MD 174 (QUARTERFIELD ROAD) AND  
RAMPS FOR NORTHBOUND I-97  
GLEN BURNIE, MD

## PAVEMENT MARKING AND GENERAL INFORMATION PLAN

SCALE 1" = 30' DATE 9-24-09 CONTRACT NO. BW-996M82

DESIGNED BY T. ZAYDEL COUNTY ANNE ARUNDEL  
DRAWN BY T. ZAYDEL LOGMILE 02017405.04  
CHECKED BY K. SCHMID T.I.M.S. NO.  
F.A.P. NO. NA TOD NO.

DRAWING NO. TS3420C GI SHEET NO. 2 OF 2

## TRAFFIC CONCEPTS, INC.

325 Gambrills Road  
Suite B  
Gambrills, MD 21054  
(410) 923-7101  
FAX: (410) 923-6473  
EMAIL: TRAFFIC@TRAFFIC-CONCEPTS.COM

FILE PATH: M:\2200\2230\signal\signal.dgn  
DATE: Thursday, September 24, 2009 AT 10:28 AM